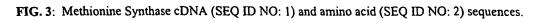
BOX 1	<u>:</u>				
			** *** *		
	Ec	(20)	DGGMGTMIQ	(SEQ	ID NO: 3)
	Ss	(20)	DGAMGTNLQ	(SEQ	ID NO: 4)
	Ml2	(5)	DGAMGTQLQ	(SEQ	ID NO: 5)
	Hi	(20)	DGAMGTMIQ	(SEQ	ID NO: 6)
	Ce	(22)	DGAMGTMIQ	(SEQ	ID NO: 7)
	Hs	(34)	DGGMGTMIQ	(SEQ	ID NO: 8)
BOX 2	<u>:</u>				
			******	•	
	Ec	(752)	ATVKGDVHDIGKN	J	(SEQ ID NO: 9)
	Ss	(729)	ATVKGDVHDIGKN	J	(SEQ ID NO:10)
	Ml2	(726)	ATVKGDVHDIGKN	1	(SEQ ID NO:11)
	Hi	(142)	ATVKGDVHDIGKN	1	(SEQ ID NO:12)
	Ce	(766)	ATVKGDVHDIGKN	1	(SEQ ID NO:13)
	Hs	(778)	ATVKGDVHDIGKN	1	(SEQ ID NO:14)
BOX 3:					
			** ** *		
	Ec	(1095)	LAEAFAEYLH	(SEQ	ID NO:15)
	Ss	(1085)	MAEALAEWTH	(SEQ	ID NO:16)
	Mll	(56)	LTEALAEYWH	(SEQ	ID NO:17)
	Hi	(490)	LAEAMAEYLH	(SEQ	ID NO:18)
	Ce	(1084)	LAEAYAEYLH	(SEQ	ID NO:19)
	Hs	(1133)	LAEAFAEELH	(SEQ	ID NO:20)
BOX 4	<u>L</u>				

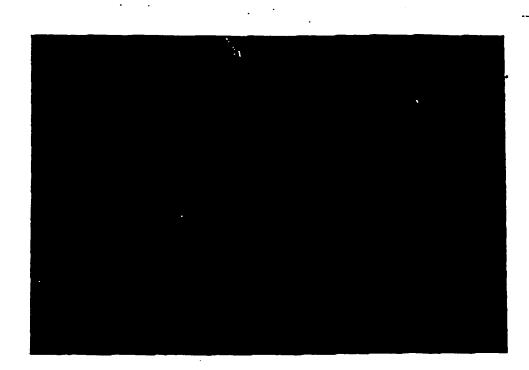
	Ec	(262)	GGCCGTTPQHI	(SEQ	ID NO:21)
	Ss	(243)	GGCCGTRPDHI	(SEQ	ID NO:22)
	Ml2	(226)	GGCCGTTPDHI	(SEQ	ID NO:23)
	Ce	(264)	GGCCGTTPDHI	(SEQ	ID NO:24)
	Hs	(321)	GGCCGSTPDHI	(SEQ	ID NO:25)

5' box 1	_box 4	.	box 2	ь	ox 3	Mouse 3'
01729	01754		D1730		21733	
,	D1755		01731	1774		M1808A
D1729	2606A			1774		· M1806B
01729	2606B				1806C	M18068
01729	18	27	•	1803 1760	1PCRa 27068 270	BA
0 1729		1706A		IPCRg 1803 1760	iPCRq 27068 270	<u> </u>
চনগ্ৰ্প্ৰ			1758	1774	27068	. .
D1729	• .		1766	1774		1107A
	D1755		1758			
<u>[</u>	758)		1758		•	
	1828 1827	19070190	178			
407B 407A		1406E	1806F	•		
(407B) 407B		1406E	1808	·		
(407B) 407B	•	ī	406D 1808			
1707B 407D IPCRc 1707C 1707A		12	1806F		· .	
3107A 407D						· ·

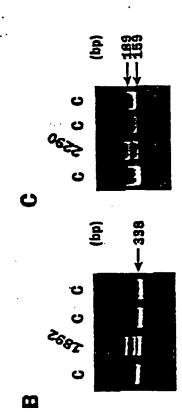


GGTCACCTGTGGAGAGCACGTCTTCTCTGCCGCGCCCCTCTGCGCAAGGAGGAGACTCGACAAC

1	ATGTCACCCGCGCTCCAAGACCTGTCGCAACCCGAAGGTCTGAAGAAAACCCTGCGGGATGAGGATCAATGCCATTCTGCAGAAGAGGGTTATGGTGCTGGAGGAGGGGATGGGGACCATG M S P A L Q D L S Q P E G L K K T L R D E I N A I L Q K R I M V L D G G M G T M	40
121	ATCCAGCGGGAGAAGCTAAACGAAGAACACTTCCGAGGTCAGGAATTTAAAGATCATGCCAGGCCGCTGAAAGGCAACAATGACATTTTAAGTATAACTCAGCCTGATGTCATTTACCAA	80
241	ATCCATAAGGAATACTTGCTGGCTGGGGCAGATATCATTGAAACAAATACTTTTAGCAGCACTAGTATTGCCCAAGCTGACTATGGCCTTGAACACTTGGCCTACCGGATGAACATGTGC I H K E Y L L A G A D I I E T N T F S S T S I A Q A D Y G L E H L A Y R M N M C	120
361	TCTGCAGGAGTGGCCAGAAAAGCTGCCGAGGAGGTAACTCTCCAGACAGGAATTAAGAGGTTTGTGGCAGGGGCTCTGGGTCCGACTAATAAGACACTCTCTGTGTCCCCATCTGTGGAA S A G V A R K A A E E V T L Q T G I K R F V A G A L G P T N K T L S V S P S V E	160
481	AGGCCGGATTATAGGAACATCACATTTGATGAGCTTGTTGAAGCATACCAAGGAGCCAAAGGACTTCTGGATGGCGGGGTTGATATCTTACTCATTGAAACTATTTTTGATACTGCC R P D Y R N I T F D E L V E A Y Q E Q A K G L L D G G V D I L L I E T I F D T A	200
601	AATGCCAAGGCAGCCTTGTTTGCACTCCAAAATCTTTTTGAGGAGAAATATGCTCCCCGGCCTATCTTTATTTCAGGGACGATCGTTGATAAAAGTGGGCGGACTCTTTCCGGACAGACA	240
721	GGAGAGGGATTTGTCATCAGCGTGTCTCATGGAGAACCACTCTGCATTGGATTAAATTGTGCTTTGGGTGCAGCTGAGATGAGACCTTTTATTGAAATAATTGGAAAATGTACAACAGCC G E G F V I S V S H G E P L C I G L N C A L G A A E M R P F I E I I G K C T T A	280
841	TATGTCCTCTGTTATCCCAATGCAGGTCTTCCCAACACCTTTGGTGACTATGATGAAACGCCTTCTATGATGGCCAAGCACCTAAAGGATTTTGCTATGGATGG	320
961	GGAGGATGCTGTGGGTCAACACCAGATCATATCAGGGAAATTGCTGAAGCTGTGAAAAATTGTAAGCCTAGAGTTCCACCTGCCACTGCTTTTGAAGGACATATGTTACTGTCTGGTCTA G G C C G S T P D H I R E I A E A V K N C K P R V P P A T A F E G H M L L S G L	360
1081	GAGCCCTTCAGGATTGGACCGTACACCAACTTTGTTAACATTGGAGAGCGCTGTAATGTTGCAGGATCAAGGAAGTTTGCTAAACTCATCATGGCAGGAAACTATGAAGAAGCCTTGTGT EPFRIGPYTNFVNIGERCNVAGSRKFAKLIMAGNYEEALC	400
1201	GTTGCCAAAGTGCAGGTGGAAATGGGAGCCCAGGTGTTGGATGTCAACATGGATGATGGCATGCTAGATGGTCCAAGTGCAATGACCAGATTTTGCAACTTAATTGCTTCCGAGCCAGAC 	440
1321	ATCGCAAAGGTACCTTTGTGCATCGACTCCTCCAATTTTGCTGTGATTGAAGCTGGGTTAAAGTGCTGCCAAGGGAAGTGCATTGTCAATAGCATTAGTCTGAAGGAAG	480
1441	TTCTTGGAGAAGGCCAGGAAGATTAAAAAGTATGGAGCTGCTATGGTGGTCATGGCTTTTGATGAAGAAGGACAGGACAGAAAACAGACACAAAAATCAGAGTGTGCACCCGGGCCTAC F L E K A R K I K K Y G A A M V V M A F D E E G Q A T E T D T K I R V C T R A Y	520
1561	I CATCTGCTTGTGAAAAAACTGGGCTTTAATCCAAATGACATTATTTTTGACCCTAATATCCTAACCATTGGGACTGGAATGGAGGAACACAACTTGTATGCCATTAATTTTATCCATGCA H	560
1681	ACAAAAGTCATTAAAGAAACATTACCTGGAGCCAGAATAAGTGGAGGTCTTTCCAACTTGTCCTTCTCCTTCCGAGGAATGGAAGCCATTCGAGAAGCAATGCATGGGGTTTTCCTTTAC T K V I K E T L P G A R I S G G L S N L S F S F R G M E A I R E A M H G V F L Y	600
180	1 CATGCAATCAAGTCTGGCATGGACATGGAGATAGTGAATGCTGGAAACCTCCCTGTGTATGATGATATCCATAAGGAACTTCTGCAGCTCTGTGAAGATCTCATCTGGAATAAAGACCCT HAIKSGMDMEIVNAGNLPVYDDIHKELLQLCEDLIWNKDP	640
192	1 GAGGCCACTGAGAAGCTCTTACGTTATGCCCAGACTCAAGGCACAGGAGGGGAAGAAGTCATTCAGACTGATGAGTGGGAGAAATGGCCCTGTGGAAGAACGCCTTGAGTATGCCCTTGTG EATEKLLRYAQTQGTGGKKVIQTDEWRNGPVEERLEYALV	680
204	1 AAGGGCATTGAAAAACATATTATTGAGGATACTGAGGAAGCCAGGTTAAACCAAAAAAAA	720
216	1 GATCTITTTGGAGCTGGAAAAATGTTTCTACCTCAGGTTATAAAGTCAGCCCGGGTTATGAAGAAGGCTGTTGGCCACCTTATCCCTTTCATGGAAAAAGAAAG	760
228	1 CTTAACGGCACAGTAGAAGAAGAAGAAGACCCTTACCAGGGCACCATCGTGCTGGCCACTGTTAAAGGCGACGTGCACGACATAGGCAAGAACATAGTTGGAGTAGTCCTTGGCTGCAATAAT LNGTVEEEDPYQGTIVLATVKGDVHDIGKNIVGVVLGCNN	800
240	1 TTCCGAGTTATTGATTTAGGAGTCATGACTCCATGTGATAAGATACTGAAAGCTGCTCTTGACCACAAAGCAGATATAATTGGCCTGTCAGGACTCATCACTCCTTCCCTGGATGAAATG FRVIDLGVMTPCDKILKAALDHKADIIGLSGLITPSLDEM	840
252	1 ATTTTTGTTGCCAAGGAAATGGAGAGATTAGCTATAAGGATTCCATTGTTGATTGGAGGAGCAACCACTTCAAAAACCCACACAGCAGTTAAAATAGCTCCGAGATACAGTGCACCTGTA I F V A K E M E R L A I R I P L L I G G A T T S K T H T A V K I A P R Y S A P V	
264	1 ATCCATGTCCTGGACGCGTCCAAGAGTGTGGTGGTGTTCCCAGCTGTTAGATGAAAATCTAAAGGATGAATACTTTGAGGAAATCATGGAAGAATATGAAGATATTAGACAGGACCAT I H V L D A S K S V V V C S Q L L D E N L K D E Y F E E I M E E Y E D I R Q D H	920
276	1 TATGAGTCTCTCAAGGAGGAGATACTTACCCTTAAGTCAAGCCAGAAAAAGTGGTTTCCAAATGGATTGGCTGTCTGAACCTCACCCAGTGAAGCCCACGTTTATTGGGACCCAGGTC Y E S L K E R R Y L P L S Q A R K S G F Q M D W L S E P H P V K P T F I G T Q V	960
288	1 TTTGAAGACTATGACCTGCAGAAGCTGGTGGACCTACATTGACTGGAAGCCTTTCTTT	1000
300	1 ACAGTAGGTGGAGAGGCCAGGAAGGTCTACGATGATGCCCACAATATGCTGAACACACTGATTAGTCAAAAGAAACTCCGGGCCCGGGGTGTGGTTGGGTTCTGGCCAGCACAGAGTATC T V G G E A R K V Y D D A H N M L N T L 1 S Q K K L R A R G V V G F W P A Q S 1	1040
312	1 CAAGACGACATTCACCTGTACGCAGAGGCTGCTGTGCCCCAGGCTGCAGAGCCCATAGCCACTTTCTATGGGTTAAGGCAACAGGCTGAGAAGGACTCTGCCAGCACGGAGCCATACTAC	1080
324	1 TGCCTCTCAGACTTCATCGCTCCCTTGCATTCTGGCATCCGTGACTACCTGGGCCTGTTTGCCGTTGCCTGCTTTGGGGTAGAAGAGCTGAGGAAGGCCTATGAGGATGATGGTGACGAC C	1120



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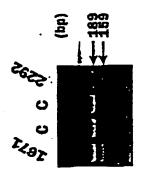


FIG. 5A

FIG. 5C

FIG. 5B

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FIG. 6

	<u>box_2</u>
	.********** * * *
Ec	IATVKGDVHDIGKNIVGVVLQCNNYEIVDLGVMVPAEKILRTAKEVNADL
Hi	IATVKGDVHDIGKNIVSVVMQCNNFEVIDLGVMVPADKIIQTAINQKTDI
Ce	IATVKGDVHDIGKNIVSVVLGCNNFKVVDLGVMTPCENIIKAAIEEKADF
Ml	LATVKGDVHDIGKNLVDIILSNNGYEVVNLGIKQPITNILEVAEDKSADV
Ss	IATVKGDVHDIGKNLVDIILSNNGYRVVNLGIKQPVENIIEAYKKHRPDC
Mm	LATVKGDVHDIGKNIVGVVLACNNFRVIDLGVMTPCDKILQAALDHKADI
Hs	LATVKG <u>D</u> V <u>H</u> DI <u>G</u> KNIVGVVLGCNNFRVIDLGVMTPCDKILKAALDHKADI
	***. * * *
Ec	IGLSGLITPSLDEMVNVAKEMERQGFTIPLLIGGATTSKAHTAVKIEQNY
Hi	IALSGLITPSLDEMEYFLGEMTRLGLNLPVMIGGATTSKEHTAIKLYPKY
Ce	IGLSGLITPSLDEMVYVAKEMNRVGLNIPLLIGGATTSKTHTAVKISPRY
Ml	VGMSGLLVKSTVIMKENLEEMNTRGVAEKFPVLLGGAALTRSYVENDLAEVY
Ss	IAMSGLLVKSTAFMKENLEVFNQEGITVPVILGGAALTPKFVHQDCQNTY
Mm	IGLSGLITPSLDEMIFVAKEMERLAIKIPLLIGGATTSRTHTAVKIAPRY
Hs	IGLSGLITPSLDEMIFVAKEMERLAIRIPLLIGGATTSKTHTAVKIAPRY
Mutatio	
Ec	-SGPTVYVQNASRTVGVVAALLSDTQRDDFVARTRKEYETVRIQHGRKKP
Hi	KQHCVFYTSNASRAVTVCATLMNPEGRAALWEQFKKDYEKIQQSFANSKP
Ce	-PHPVVHCLDASKSVVVCSSLSDMSVRDAFLQDLNEDYEDVRQEHYASLK
Ml	-EGEVHYARDAFEGLKLMDTIMSAK-RARRCAGEPGVLSCRSRPQ
Ss	-KGQVIYGKDAFADLHFMDKLMPAKNSHNWDDF-QGFLGEYATE-NGHNVTTD
Mm	-SAPVIHVLDASKSVVVCSQLLDENLRDDYLEEILEEYEDIRQDHYESLK
Hs	-SAPVIHVLDASKSVVVCSQLLDENLKDEYFEEIMEEYEDIRQDHYESLK
Mutatio	

```
Ec (SEQ ID NO: 73)
Hi (SEQ ID NO: 72)
Ce (SEQ ID NO: 71)
Ml (SEQ ID NO: 70)
Ss (SEQ ID NO: 69)
Mm (SEQ ID NO: 68)
Hs (SEQ ID NO: 67)
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